```
abadi     1
abide     1
ability   4
able      2
aborting  1
about     20
above     5
absence   2
abstracting   1
abstraction   1
abstractions  1
abstracts     1
abuse     8
abused    1
academic  5
acceptance    3
accepted  3
accepting 1
accepts   2
access    371
accessed  20
accesses  5
accessible    11
accessing 14
accession 1
accompanied   1
accompanying  1
accomplished  2
accordingly   5
account   8
accountability    1
accountable   1
accounted 4
accounting    45
accounts  3
accrue    1
accumulator   2
accuracy  1
accurate  5
accurately    1
acer      8
achieve   3
achieved  6
acoustic  3
acquire   1
acquired  1
acquiring 2
acquisition   2
across    3
act       6
actions   3
activate  1
activated 2
active    15
activities    5
activity  11
acts      2
actual    1
acute     5
adaptable 3
adapted   6
adaptive  6
add       1
```

added 8
addendum 4
adding 3
addition 11
additional 12
additionally 2
additions 1
address 12
addressable 1
addressed 2
addresses 5
addressing 1
adequately 2
adjudicate 1
administer 1
administering 1
administration 9
administrative 1
administrator 1
administrators 4
admission 4
admitted 1
adopt 1
adopted 1
advance 1
advanced 7
advantage 1
advantageously 4
advantages 7
advent 1
advertisements 3
advertiser 2
advertisers 1
advertising 1
advice 3
advisory 1
affected 3
afforded 2
affording 1
affords 1
aforementioned 2
after 18
again 3
against 14
age 1
agencies 1
agency 6
agent 15
agents 5
aggregate 5
aggregated 2
aggregation 3
aggregations 1
agreement 6
aic 3
aid 1
aided 2
album 8
algorithm 14
algorithms 1
alias 1
allergies 1
allocated 2

```
allocating   1
allocation   2
allow   11
allowed   10
allowing   17
allows   20
almost   1
alone   5
along   1
alphanumeric   1
already   3
alter   1
alteration   3
altered   2
alternate   1
alternately   5
alternatively   4
although   2
always   1
am a   1
among   7
amortization   2
amount   8
analysis   11
analyze   2
analyzing   1
ancillary   2
anderson   2
angelo   1
annotate   1
anonymity   1
anonymization   2
anonymize   2
anonymized   1
anonymous   13
answer   1
answering   1
anti   3
anticircumventi   1
any   19
anywhere   3
apparatus   134
apparatuses   1
applet   6
applets   2
appliances   2
applicability   1
applicable   1
applicant   1
application   39
applications   27
applied   16
applies   1
apply   3
applying   4
approach   2
approaches   3
appropriate   11
appropriately   1
approval   1
approved   3
approximation   1
apr   19
```

april 1
arbitrary 2
arbitrator 1
architected 1
architects 1
architecture 30
architectures 2
archival 4
archive 21
archives 2
archiving 3
area 34
arent 1
arise 2
arisen 1
arising 1
arithmetic 1
arnold 1
arrived 1
art 7
article 19
articles 2
artisan 1
artists 2
aspect 15
aspects 8
assemble 1
assembling 1
assembly 1
assessing 1
assessment 5
assets 2
assigned 6
assigning 1
assist 1
assistance 3
assistant 1
assisted 2
assoc 5
associate 1
associated 46
associating 2
association 4
associations 1
assume 1
assuming 3
assurance 1
assure 4
assuring 1
asynchronous 2
atm 2
atomic 3
attached 1
attachment 3
attack 1
attacker 1
attackers 1
attacks 1
attempt 2
attempting 1
attempts 12
attendance 1
attending 2

attorney 2
attribute 2
attributes 6
aucsmith 1
audebert 1
audio 4
audit 20
auditable 1
auditing 14
aug 11
augmented 1
authentic 2
authenticate 4
authenticated 12
authenticates 2
authenticating 20
authentication 86
authenticity 6
authentification 1
author 2
authorities 1
authority 27
authorization 41
authorizations 2
authorized 36
authorizes 1
authorizing 2
autocorrelation 1
automated 13
automatic 5
automatically 9
automating 1
availability 3
available 25
avoid 3
avoided 3
aware 1
away 1
aziz 1
back 8
background 1
backing 2
backup 2
bahreman 1
ballantyne 1
bandwidth 5
bank 7
banking 3
bapat 1
bar 1
barber 1
barrier 2
barriers 1
base 7
based 117
basic 3
basically 1
basile 2
basis 8
becomes 2
becoming 1
bedside 1
before 7

behalf  11
behave  1
behram  1
belong  2
belonging  3
belongs  1
below  1
benefit  1
benefits  3
benhammou  1
berlin  1
best  2
between  68
beyond  3
biffar  2
bill  2
billable  1
billed  1
billing  20
binding  1
biometric  58
biometrically  1
biometrics  1
biosensor  1
birth  1
bit  4
bitmap  2
bits  2
blind  2
blinding  2
block  8
blocking  2
blocks  3
blood  2
blown  3
board  2
book  2
borrowed  1
borza  1
both  31
bound  2
bouthillier  1
bracketing  1
brands  1
breach  6
breached  1
bridge  1
bridging  1
brief  1
broad  1
broadband  1
broadcast  9
broadcasts  1
broader  1
broken  1
brokering  1
browser  6
browsing  3
buckovich  1
buffer  5
build  2
bulk  1
bull  1

bulletin 2
burden 7
burdens 2
burks 1
bus 1
business 10
businesses 1
but 38
bytecode 2
cable 1
cabrera 1
calculated 4
calculates 1
calculations 1
calendaring 2
calibration 1
call 3
called 3
caller 2
callers 4
calling 1
can 65
canal 1
candelore 1
candidates 2
cannot 15
capabilities 3
capability 7
capable 9
capacitively 2
capacity 4
capital 1
capture 4
captured 1
captures 1
card 89
cardiology 1
cardless 1
cards 13
care 46
caregiver 5
caregivers 3
caretaker 1
carried 7
carrier 9
carriers 3
carries 2
carrying 5
case 39
cases 3
cash 12
cashless 1
casing 5
catalog 1
categorical 1
categories 4
category 2
cause 1
causes 1
cavity 2
cdr 1
cellular 1
center 3

centimeters  1
central  9
centralized  7
centralizing  1
centric  1
centuries  1
certain  17
certificate  31
certificates  8
certification  23
certified  1
certifies  2
certifying  1
cfr  1
chaco  1
chain  2
challenge  6
challenges  1
chances  1
change  8
changed  6
changes  4
changing  4
channel  16
channeled  1
channels  4
chaotic  1
character  1
characteristic  3
characteristics  3
characterization  1
characterized  1
characterizing  2
charge  1
charged  3
charging  2
charles  1
chart  1
charting  1
chaum  1
cheating  1
check  4
checked  2
checks  1
checksum  1
children  2
chip  5
chipcards  1
choi  1
choice  1
choose  1
chosen  2
chow  1
ciacelli  1
cipher  2
circuit  12
circulating  2
circumstances  5
circumstantial  2
circumvent  2
circumvention  1
citizen  1
claimant  2

claims 9
clark 1
class 4
classification 3
classifications 1
classified 4
classifying 1
clearance 1
clearinghouse 4
clearinghouses 1
clement 1
clerical 1
client 14
clients 6
clinic 3
clinical 13
clinics 1
close 2
closed 1
closure 1
club 1
clusters 1
code 44
coded 4
codes 14
coding 3
coefficients 1
cohen 1
coley 1
collaboration 1
collate 1
collect 1
collecting 1
collection 6
collectively 1
collector 2
collects 2
collusion 1
color 3
combination 10
combined 3
combines 1
combining 1
come 1
command 9
commands 1
comment 1
commerce 12
commercial 6
commercially 2
commercials 2
common 14
communicate 8
communicated 2
communicates 1
communicating 5
communication 58
communications 48
communities 2
community 2
companies 5
companion 1
company 1

comparative 1
compared 6
compares 1
comparing 5
comparison 2
compartments 6
compatible 5
compensate 1
compensated 2
compensation 5
compilation 1
compiled 1
compiler 2
compiling 1
complaints 2
complete 11
completed 3
completely 1
completes 1
completion 2
compliance 5
compliant 1
complies 1
component 18
components 6
composite 1
comprehensive 3
compressed 4
compression 4
comprise 1
comprised 1
comprising 10
compromised 2
compromising 1
computation 1
computational 2
computationally 1
computed 4
computer 185
computerize 1
computerized 8
computers 20
computing 8
concatenation 1
concatenations 1
concept 5
conceptually 1
concern 1
concerning 6
concerns 2
concert 1
concurrent 2
condition 3
conditional 5
conditionally 2
conditions 5
conduct 1
conducted 6
conducting 2
conduit 3
confidential 9
confidentiality 8
configurable 3

```
configuration  7
configured  6
confines  3
confirm  2
confirmation  2
conflict  1
conformance  1
conjugate  1
conjunction  7
connected  19
connecting  4
connection  14
connectionless  2
connections  15
conner  1
consent  6
consequence  1
consequently  1
considered  6
consistency  2
consistent  1
consisting  3
consolidate  2
consolidated  5
consolidating  1
constant  1
constantly  1
constrained  1
constraints  1
constructed  2
constructing  1
construction  1
constructions  1
consultant  1
consultation  1
consults  1
consume  1
consumer  23
consumers  3
consumption  3
contactless  1
contagious  1
contain  5
contained  13
container  1
containing  17
contains  9
content  146
contents  10
context  12
contexts  2
contextual  3
contextually  3
contiguous  1
contingent  1
continuous  1
contracts  5
contribute  2
control  79
controlled  17
controller  7
controlling  25
controls  8
```

convenience  2
convenient  4
conventional  1
conversation  3
converting  1
converts  1
conveyed  2
cookie  1
cooperate  2
cooperative  4
coordinated  1
coordinating  3
copied  1
copies  2
copy  12
copying  8
copyright  10
copyrighted  1
core  2
corporate  2
correct  2
corrected  1
correction  2
correlate  1
correlation  5
correlator  1
correspondence  3
corresponds  1
corrupting  1
corruption  2
cost  15
costly  3
costs  16
counter  6
counterfeit  1
counterfeiting  1
counterparties  1
counters  1
counting  1
countries  1
coupled  4
coupler  2
coupling  4
coupons  1
courier  1
course  5
court  2
covered  3
covert  1
cracking  1
create  3
created  7
creates  2
creating  5
creation  7
credential  3
credentialing  4
credentials  1
credit  15
creditor  1
criminal  1
criteria  2
criterion  1

critical 4
critically 1
cross 1
crush 3
cryptographic 56
cryptographically 2
cryptography 1
cryptosystem 7
crytographic 1
css 1
cubic 1
cumulative 1
current 8
currently 4
cursor 2
curve 1
curves 1
cushman 1
custodial 3
custodian 20
custodians 1
customarily 1
customer 14
customers 3
customizable 1
customized 4
customs 1
cycle 1
cyclic 1
daily 1
data 461
database 176
databases 25
datastores 3
date 10
dates 2
david 1
day 1
dbms 1
ddns 1
deactivated 1
deactivation 1
deal 1
dealt 1
dean 1
deauthorization 1
deauthorized 1
debit 6
debtor 1
dec 13
decades 1
december 1
decide 3
decides 3
decipher 2
decipherable 1
decision 5
declarative 2
decoded 1
decoder 4
decoding 2
decompressed 1
decompression 1

decrease 2
decrypt 8
decrypted 20
decrypting 11
decryption 38
decrypts 3
dedicated 1
deemed 1
default 4
defaults 4
defective 1
define 6
defined 35
defines 3
defining 6
definition 4
definitions 2
degenerate 1
deindl 2
delayed 1
delegated 1
delegating 1
delegation 1
delimited 1
delivered 7
delivering 4
delivery 7
demand 1
demands 3
demers 1
demographic 2
demographics 1
demonstrate 1
denied 2
denison 1
dense 1
dental 3
department 1
dependence 4
dependent 5
depending 2
depositing 1
depositor 1
depression 2
derivation 3
derive 2
derived 6
deriving 2
descramble 2
descrambled 2
describes 2
describing 1
description 2
descriptions 1
descriptive 2
descriptor 1
descriptors 2
design 3
designed 4
designs 1
desirable 3
desires 1
desiring 1

desktop 2
destination 5
destinational 1
destined 1
destroyed 1
detailed 1
detect 1
detected 3
detecting 8
detection 10
detector 4
detects 1
deter 2
determination 1
determine 10
determined 9
determines 4
determining 5
deterministic 1
deterred 1
deterrent 1
deterrents 1
deters 1
devalue 1
develop 1
developed 6
development 2
device 79
devices 23
diagnosed 1
diagnoses 2
diagnosis 6
diagnostic 6
diagram 1
dial 1
dictation 1
dictionary 1
differ 1
difference 1
differences 1
different 26
differing 1
differs 2
difficult 8
difficulty 1
digest 2
digital 108
digitally 6
digitized 3
direct 8
directed 4
direction 2
directly 4
directory 2
dirienzo 1
disadvantages 1
disbursement 5
disc 4
discharge 4
disclose 3
disclosed 12
disclosure 5
discontiguous 2

discontinued 1
discovered 1
discovery 1
discriminates 2
discrimination 2
discussed 2
disease 4
diseases 1
disk 1
disks 1
disorders 1
disparate 5
dispenser 1
dispensing 1
dispersed 1
displacement 1
display 14
displayed 11
displaying 2
disposed 1
disposition 1
dispute 1
disrupt 1
disseminated 1
dissemination 4
distinct 3
distinguished 2
distribute 5
distributed 21
distributing 5
distribution 37
diverse 2
divided 2
dmca 1
dns 2
doc 1
doctor 13
doctors 3
document 25
documents 20
doggett 1
doing 1
domain 1
domains 2
dot 1
double 1
doue 1
down 1
downloads 1
drawings 2
drive 6
driven 2
driving 1
drug 3
drugs 1
dsa 1
dual 5
due 8
dummy 3
duplicate 2
duration 2
during 17
duty 1

dvd   2
dynamic   14
dynamically   5
ear   1
earliest   1
earth   2
ease   1
easily   10
eavesdropper   2
eavesdroppers   1
eberhardt   1
economic   5
economical   1
economies   1
edi   1
edits   2
edu   1
education   1
educational   3
effect   2
effective   3
effectively   3
effectiveness   2
effects   1
effectuation   1
efficiencies   1
efficiency   3
efficient   18
efficiently   2
efforts   1
efr   2
eft   1
either   11
electric   1
electronic   160
electronically   9
electronics   1
element   15
elemental   1
elements   17
elgamal   1
eligible   1
eliminate   3
eliminated   1
eliminates   1
eliminating   1
ellard   1
elliptic   2
elsewhere   1
embedded   12
embedding   11
embodied   1
embodiments   5
emergencies   1
emergency   24
empirical   4
employ   7
employed   25
employing   12
employment   1
employs   2
emm   5
emulates   1

```
enable   3
enabled   3
enables   4
enabling   15
encipher   1
encode   1
encoded   10
encoding   5
encompassed   1
encompasses   1
encompassing   1
encounter   6
encounters   3
encouraged   1
encrypt   3
encrypted   78
encrypting   7
encryption   99
encrypts   1
end   5
endeavor   1
enforce   4
enforced   4
enforcement   2
enforcing   2
engage   2
engages   1
engine   2
english   1
enhanced   13
enhancing   2
enormous   1
enough   2
enroll   1
ensure   8
ensures   4
ensuring   5
enter   5
entered   6
enterprise   2
enterprises   2
enters   1
entertainment   3
entire   12
entirely   3
entities   15
entitlement   1
entity   7
entrant   1
entries   9
entrust   4
entrusted   2
entrusts   1
entry   17
environment   16
environmental   1
environments   2
envisions   2
envoy   2
envoys   2
ephemeral   1
epidemiological   8
epidermal   1
```

```
equipment    4
equipped    1
equitable    1
equitably    2
erase    7
ergonomic    3
error    1
errors    1
escort    1
escrow    9
escrowed    1
especially    3
establish    5
established    7
establishes    2
establishing    20
establishment    2
esults    1
etc    3
ethical    1
evaluate    1
evaluates    1
evaluating    1
evaluation    1
evaluator    2
evans    1
even    22
event    15
events    4
eventually    1
every    8
evidencing    2
evolved    2
examination    5
examinations    2
examiner    2
examines    1
examining    1
example    87
examples    2
exceeds    1
except    1
exception    1
exchange    16
exchanged    1
exchanges    1
exchanging    3
exclude    1
exclusively    2
executable    3
execute    2
executed    2
executer    1
executes    3
executing    8
execution    4
executions    1
exemplary    2
exercises    1
exert    2
exhibit    1
exist    2
existence    11
```

existing  16
exists  1
expansion  2
expected  3
expense  3
expenses  1
expensive  1
experience  1
expert  2
expiration  1
expired  1
explicit  1
exploit  2
exploited  1
exponentiation  1
exposed  2
express  3
expressed  1
expressly  123
expunged  1
extended  1
extensible  11
extension  3
extensions  3
extensive  2
extensively  1
extent  1
external  21
externalization  1
externalize  1
externalizing  1
externally  2
extract  5
extracted  3
extracting  3
extraction  3
extracts  1
extrinsically  1
eyeglass  1
face  7
faces  1
facial  2
facilitate  8
facilitated  2
facilitates  4
facilitating  9
facilities  9
facility  20
facsimile  1
fact  15
factor  2
factored  1
factors  3
facts  1
factual  2
fail  1
fails  1
failure  4
fair  1
false  1
family  1
fashion  5
fast  5

```
fault  1
fax  1
feature  10
features  7
featuring  1
feb  19
february  1
federal  5
fedi  1
fee  6
feedback  1
fees  6
fell  2
few  3
fewer  1
fiedler  1
field  15
fields  9
file  62
files  29
filing  8
filled  1
filter  7
filtered  2
filters  3
final  3
finally  2
financial  20
find  1
findings  1
finely  1
finger  1
fingerprint  14
fingerprinted  1
fingerprinting  6
fingerprints  3
finite  1
firewall  62
firewalls  1
firm  1
firms  1
firmware  1
first  56
fixed  2
flash  1
flexible  13
flexibly  1
floppy  1
flow  3
flowsheet  1
fluoroscopy  1
fob  3
followed  3
following  2
follows  1
font  1
food  2
forensic  1
forgotten  1
form  33
format  22
formation  1
formats  5
```

```
formatting   1
formed   6
former   1
forming   1
forms   11
formula   1
formulated   2
fortenberry   1
forth   2
forwards   3
found   4
fragile   2
fragment   1
fragmentation   1
fragmented   2
framework   3
frasca   1
fraud   5
free   3
freely   2
freeman   1
frequency   1
frequently   1
friedman   1
front   1
full   9
fully   3
function   23
functional   3
functionality   1
functioned   1
functioning   1
functions   20
funding   1
funds   6
furnished   1
fuse   3
future   2
gain   3
gains   3
gateway   10
gateways   7
gather   1
gathered   1
general   8
generalized   2
generate   9
generated   33
generates   5
generating   13
generation   15
generator   4
generators   1
generic   2
generis   1
genetics   1
geographically   1
get   1
gets   1
gigabytes   1
ginter   3
gio   1
given   6
```

```
gives    3
giving   1
global   2
globally   1
glover   1
goal   1
going   1
goods   6
governing   1
government   4
governmental   2
grade   2
grades   1
granted   2
granting   1
granular   1
graphic   5
graphical   1
graphics   1
graunke   1
greater   2
greatly   3
griffin   1
group   7
groupers   1
groups   1
grow   1
growing   1
grows   1
guarantee   1
guaranteed   1
guard   1
guardian   2
guide   1
guidelines   1
guiding   1
habits   3
hair   1
halamka   1
halftone   1
hand   15
handle   3
handled   2
handling   10
handshaking   1
handwritten   2
hardcopy   1
hardware   9
harvey   1
hash   3
hashes   1
head   4
header   4
headings   1
headset   1
health   41
healthcare   15
heavily   1
heer   1
held   6
helga   1
help   5
hence   1
```

her   2
here   3
heretofore   1
hereunder   2
herz   1
heterogeneous   1
hidden   1
hiding   2
hierarchical   5
hierarchy   2
high   15
higher   3
highest   5
highly   4
highway   1
hillhouse   1
himself   3
hipaa   1
hippocrates   1
his   8
historically   1
histories   4
history   14
hold   6
holder   4
holders   1
holding   2
holds   2
holographic   2
home   1
homed   1
homes   1
honda   2
hospital   16
hospitalization   1
hospitals   3
host   6
hosts   7
hotelled   1
hour   1
hours   1
houses   2
how   3
html   3
http   3
huerga   1
human   7
hunt   1
hybrid   3
hypertext   2
iconic   1
idea   1
identical   3
identifiable   2
identification   98
identifications   1
identified   6
identifier   24
identifiers   10
identifies   2
identify   14
identifying   28
identity   31

ieee 1
illegal 3
illness 2
illustrates 3
illustratively 2
image 41
imager 2
images 14
imaging 5
immediate 1
immediately 1
impact 1
impair 2
impairments 1
impede 1
imperfect 1
implement 8
implementation 19
implementations 1
implemented 17
implementing 21
implements 2
implications 1
implied 1
importance 2
important 5
importantly 1
impose 7
imposed 6
imposes 1
imposing 3
imprinting 1
improve 4
improved 7
improving 3
inability 3
inaccessible 2
inactive 3
inc 3
incentives 2
incentivize 1
incident 1
incidents 1
include 24
included 4
includes 81
including 38
inclusion 2
income 1
incoming 4
incomplete 1
inconsistency 1
incorporate 2
incorporated 126
incorporating 5
increase 12
increased 3
increases 1
increasing 2
increasingly 1
incremental 1
incurred 1
incurs 1

indeed 14
indemnification 1
indemnity 1
independent 7
independently 3
index 36
indexed 2
indexes 1
indexing 4
indicate 2
indicated 3
indicating 2
indicative 2
indicator 6
indicia 3
indirectly 1
individual 54
individualization 1
individually 3
individuals 14
inductively 1
industries 2
industry 1
inexpensive 1
inflate 1
inform 5
informal 1
information 447
informational 4
infrared 1
infrastructure 12
infringed 2
infringement 2
inherent 3
inhibit 1
inhibiting 1
initial 1
initialization 1
initialized 2
initializing 2
initiate 1
initiated 3
initiating 2
initiation 1
initiatives 1
initiator 1
injected 1
injection 1
injuries 1
inpatient 9
input 15
inputs 2
inquirer 5
insecure 5
insertion 2
inserts 1
inside 14
insiders 1
insight 1
insignificant 2
installation 4
installed 1
instances 10

```
instant   1
instead   1
institution   27
institutional   11
institutions   17
instruction   2
instructions   8
instructs   1
instrument   11
instruments   4
insurance   13
insurer   3
insurers   3
integral   2
integrate   2
integrated   18
integrating   1
integrity   4
intellectual   3
intelligent   11
intended   19
intensely   1
intensive   1
intent   2
intentionally   1
interact   1
interacting   1
interaction   10
interactions   1
interactive   9
interacts   1
intercepted   1
interception   1
interchange   9
intercommunications   1
interconnect   1
interconnected   4
interested   1
interests   1
interface   47
interfaces   1
interfacing   1
intermediaries   3
intermediary   5
intermediate   1
intermittently   1
internal   12
international   2
internet   30
internetworked   1
interoperability   3
interoperable   2
interpersonal   1
interpret   1
interrogatable   2
interrogate   1
interrogation   1
intervals   1
intranet   5
intrinsic   1
introduced   1
introduces   1
introducing   1
```

introduction 1
intruders 2
intrudes 1
invariant 1
invasive 2
inventions 1
invertible 1
investigated 1
investment 1
investments 1
investor 1
invoked 1
invoking 1
involve 1
involved 5
involves 4
involving 2
iris 4
irregularity 1
irrelevant 1
isolates 2
issuance 1
issue 7
issued 3
issuer 8
issuers 1
issues 8
issuing 7
item 3
items 5
itself 18
jade 2
jan 5
jarecki 1
java 2
jealously 1
jeff 1
jim 1
job 3
john 1
johnson 1
journal 1
journals 1
jpeg 1
jul 7
jun 20
jurisdiction 3
jurisdictional 2
jurisdictions 10
just 2
justify 1
karpf 1
keene 1
keeping 5
kept 2
kerberos 1
ketcham 1
key 222
keyboard 1
keys 36
khosla 1
kidney 1
kigo 1

know  3
knowledge  11
known  10
knows  1
knuckle  2
kocher  1
kravitz  1
krsul  1
kuhn  2
kurtzberg  1
lab  1
label  4
labeling  2
labels  1
laboratories  2
lan  3
langhans  1
language  8
large  15
larger  2
latent  3
later  1
latest  1
latka  1
lavin  1
law  5
laws  5
lawyers  1
layer  10
layers  3
leading  1
learn  1
least  10
legacy  3
legal  25
legislation  1
legislative  1
legitimate  2
lending  1
less  11
lesser  1
level  34
levels  11
lexical  1
library  2
license  6
licensing  1
life  2
light  1
like  9
likely  4
likewise  9
limit  5
limitation  2
limitations  2
limited  10
limiting  1
limits  3
line  29
lines  1
link  7
linkage  2
linked  5

```
linking  3
links  1
list  5
lists  1
literature  1
liu  1
live  2
load  2
loaded  2
loader  2
loading  4
loan  1
local  13
localized  1
locally  4
located  4
locating  1
location  17
locations  3
locator  1
lock  1
locking  4
log  9
logged  4
logging  1
logic  1
logical  2
login  4
logon  1
logout  1
logs  4
lohstroh  1
long  1
longstanding  1
lookup  2
loss  4
lost  2
low  6
lower  2
lowered  1
lowest  1
machine  13
machines  2
made  18
magazines  1
magnetic  10
magnetically  1
mail  6
main  1
mainframe  1
maintain  18
maintained  24
maintainer  2
maintaining  17
maintains  4
maintenance  11
make  4
makes  2
making  4
man  3
managed  7
management  56
manager  1
```

manages   1
managing   9
mandates   1
mandatory   1
manner   13
manners   1
manual   4
manually   1
manufacture   20
manufactured   1
manufacturer   1
many   23
mapped   2
mapper   2
mappers   2
mapping   6
mappings   1
maps   1
mar   18
march   3
marked   1
markets   1
marking   2
markings   3
markup   5
masking   1
mass   1
massive   2
master   5
masterfile   1
match   4
matched   1
matches   1
matching   12
material   5
materials   2
mathematical   1
matrix   1
matter   1
maurizio   1
maximum   1
may   307
mcdonald   1
mcdonough   1
mcgauley   1
mcmanis   1
meaning   1
measurement   1
measurements   3
measures   2
mechanical   1
mechanism   15
mechanisms   2
med   5
media   41
mediate   1
mediated   1
mediator   1
medicaid   1
medical   283
medicare   3
medication   1
medications   2

medium 15
meet 5
megabytes 1
members 4
memories 1
memorized 1
memory 44
mentioned 1
merchant 5
merchants 1
merely 2
message 38
messages 9
messaging 1
meta 1
metadata 5
metal 1
meter 3
metering 5
method 393
methodology 2
methods 44
metric 1
metrics 2
metro 1
metropolitan 4
micali 4
michael 1
michaels 1
micro 2
microchip 1
micromint 1
micropayment 8
micropayments 3
microprocessor 3
microtransaction 1
might 3
millenium 1
miller 1
minear 1
minimal 2
minimize 3
minimizes 1
minimizing 3
minutiae 2
misappropriation 1
missing 4
misuse 4
mls 8
mobile 2
mobility 2
mode 6
model 15
models 1
modem 3
moderated 2
modern 1
modes 2
modest 1
modification 4
modifications 2
modified 4
modifies 1

```
modify   1
modifying   2
modlang   1
modular   3
modulated   1
module   19
modules   12
modulo   1
monetary   17
money   5
monitor   5
monitored   1
monitoring   10
monomer   1
monomers   1
moore   1
morales   1
more   32
moreover   1
mortgage   1
moshfeghi   1
most   7
mounted   1
mouse   1
moussa   1
movement   2
movie   1
moving   2
mpeg   2
mptp   2
much   1
muehlberger   1
multi   14
multichannel   7
multidigit   2
multilayer   4
multimedia   9
multiple   28
multiply   1
multitude   2
muratani   1
music   1
musical   2
must   29
myers   1
myriad   1
name   2
naor   1
narrative   1
national   2
native   2
natively   2
natural   4
nature   2
necessarily   5
necessary   17
necessity   1
need   24
needs   3
negative   2
negatives   1
negotiated   2
negotiating   1
```

```
negotiation  1
neil   1
nelson  1
nessett  1
net   3
network  197
networked  4
networking  1
networks  36
neural  1
neutral  2
new  16
newman  1
newspapers  1
next  1
node  5
nodes  5
noise  1
non  36
nonsecure  3
nor  2
normal  5
normalizing  3
normally  1
nos  4
notably  1
notarization  3
notebook  1
noted  10
notes  3
notification  5
notifying  1
nov  23
novel  1
npi  1
nuisance  1
null  1
number  56
numbers  12
numeric  1
numerous  1
nurses  1
nursing  2
object  25
objects  23
obligation  2
obscure  1
obtain  6
obtained  7
obtaining  8
obtains  2
occur  3
occurred  2
occurrences  1
occurs  5
oct  5
october  1
ocular  1
off  10
offered  1
office  1
offices  1
offsetting  1
```

often  14
old  1
olivia  3
once  10
one  70
ones  1
ongoing  2
online  5
only  52
open  6
operable  1
operate  1
operated  2
operates  5
operating  12
operation  12
operations  4
operatively  3
operator  2
opportunity  1
optical  22
optically  1
optimal  4
optimally  4
optimization  1
optimized  2
optionally  2
order  38
orders  2
ordinarily  1
org  2
organization  3
organizations  2
organized  2
organizes  1
oriented  7
origin  2
original  6
originally  1
originals  1
originate  2
originating  3
origination  1
originator  1
others  2
otherwise  8
out  10
outcome  7
outcomes  3
outflow  1
outpatient  15
outpatients  1
output  3
outputted  1
outputting  1
outside  32
outsourcing  2
outstanding  1
outwardly  1
over  58
overall  9
overcome  3
overhead  4

overrides 2
overspending 4
overwriting 1
owes 1
own 10
owned 2
owner 31
owners 5
package 7
packaging 1
packet 8
packets 5
packing 1
page 5
pager 1
pages 4
paid 1
pain 1
pair 2
pairs 7
paper 14
paradigm 2
parallel 3
parameter 1
parameters 10
paraprofessionals 2
parent 2
parser 1
parsing 1
part 11
partial 5
partially 2
participant 8
participants 2
participating 1
participation 1
particular 34
parties 7
partition 1
partitioned 1
partitions 1
parts 1
party 26
pass 2
passed 2
passing 3
passive 3
passport 6
passthrough 1
password 46
passwords 12
past 3
pat 752
patch 1
patents 1
pathology 1
patient 179
patients 12
pattern 8
patterned 1
patterns 5
paul 1
pay 3

payer 7
paying 4
payment 52
payments 10
payor 1
payors 10
payword 1
pcs 2
peak 1
peer 4
pen 2
people 1
per 2
perceived 1
perceptible 3
perceptually 1
perform 3
performed 10
performing 9
performs 2
period 4
periodic 3
periodically 4
peripheral 5
permission 4
permissioned 1
permissions 8
permissive 1
permit 1
permits 5
permitted 3
permitting 11
persistent 1
person 13
persona 1
personal 76
personalization 6
personalized 4
personalizing 1
personally 5
personnel 11
persons 5
perspective 1
pertain 2
pertinent 1
perusal 1
pervasive 2
peter 1
pharmaceutical 1
pharmacies 2
pharmacological 1
phase 1
philsar 1
phone 2
phonecard 1
phonocardiography 1
photograph 1
photographic 3
photographs 2
phrase 1
phrases 1
physical 10
physically 2

```
physician   19
physicians   7
piece   4
pin   5
pins   1
piracy   4
pki   2
place   4
plain   2
plaintext   1
platform   1
playback   1
player   1
plug   2
pluggable   1
plural   1
plurality   43
plus   1
pocket   1
point   14
pointer   1
policies   6
policy   16
polk   1
polled   1
polling   4
polymer   4
polymers   2
polynomials   1
pooled   1
poor   1
popular   1
populated   1
port   7
portability   9
portable   27
porting   1
portion   17
portions   20
ports   2
poses   4
position   2
positioned   2
positions   1
positive   4
positively   1
possesses   1
possession   3
possibility   5
possible   14
possibly   5
post   1
postage   1
postal   1
potential   9
potentially   4
power   6
powerful   1
practical   4
practice   8
practices   1
practitioner   2
practitioners   1
```

```
pre  2
predefined  5
predetermined  22
predicate  1
predictive  1
preempted  1
preference  1
preferences  6
premises  1
preparation  2
prepared  2
preprocessor  1
prescribed  1
prescription  2
prescriptions  2
preselected  1
presence  1
presentation  4
presented  8
presenting  2
presently  2
presentment  3
presents  6
preserve  1
preserved  1
preserves  1
preserving  4
preset  2
presumably  3
presumed  5
prevent  6
prevented  1
preventing  11
prevention  2
prevents  4
previous  1
previously  4
pricing  1
primarily  3
primary  8
prime  1
principles  1
print  4
printed  3
printer  1
printing  3
prior  15
privacy  32
private  72
privately  2
privilege  2
privileged  4
privileges  8
proactive  1
proactively  1
probabilistic  1
probabilities  3
probability  5
problem  7
problematic  1
problems  3
procedure  13
procedures  6
```

```
proceeds 1
process 65
processed 8
processes 9
processing 55
processor 5
processors 2
proctored 1
produced 2
produces 4
producing 1
product 2
production 2
products 6
professional 5
professionals 6
profile 10
profiles 10
profiling 2
profit 2
program 31
programmable 4
programmatic 2
programmer 2
programming 1
programs 17
progress 1
prohibited 1
prohibition 1
prohibits 1
proliferation 1
promise 1
promoting 1
promotions 1
prompted 3
prompts 1
promulgated 1
proof 11
proper 3
properly 1
properties 3
property 6
proposals 1
propose 1
proposed 7
proposes 2
proprietary 12
proprietor 4
protect 10
protectable 5
protected 25
protecting 19
protection 24
protective 2
protocol 24
protocols 9
prototypes 1
proves 1
provider 38
providers 16
providing 32
provision 2
provisioning 1
```

```
provisions  1
proxies  1
proximity  2
proxy  16
pseudo  1
pseudonyms  1
pseudorandom  5
pstn  1
psychiatric  2
psychological  1
pub  1
public  75
publication  3
publicly  1
publisher  1
publishers  2
pulmonary  1
purchase  6
purchased  1
purchases  1
purchasing  1
purpose  12
purposes  3
purse  2
pursuant  1
push  2
pushes  1
qualify  1
quality  11
quantities  1
queries  4
query  13
querying  1
questionnaires  1
quote  2
radiological  2
radiology  3
raised  1
ram  1
ramifications  1
random  10
range  1
rapid  1
rapidly  1
rare  1
rates  1
rather  17
ratio  1
raw  1
ray  1
raymond  1
rbac  8
read  9
readable  8
reader  12
readers  3
readily  2
reading  9
readout  1
readykey  5
real  7
realized  2
realizing  4
```

```
reallocated  2
reasons  2
recalled  2
receipt  6
receive  12
received  14
receiver  9
receives  8
receiving  14
recent  2
recently  1
reception  2
recipient  59
recipients  3
recognition  15
recognized  1
recommendations  2
reconcile  2
reconfiguring  2
reconstructing  1
reconstruction  1
record  204
recordable  1
recorded  2
recording  15
records  202
recovery  4
recreate  1
redactable  1
redaction  1
redeeming  2
redistribution  2
reduce  4
reduced  5
reduces  2
reducing  6
reduction  1
reductions  1
redundancy  2
redundant  1
refer  1
reference  136
referenced  2
references  4
referencing  1
referential  1
referred  3
reflect  1
reflects  1
refuse  1
regard  2
regarding  4
regimes  1
regional  3
regions  1
registered  2
registering  1
registers  1
registrar  3
registration  2
regular  1
regularizer  1
regularizing  1
```

```
regulate  1
regulated  8
regulating  1
regulation  2
regulations  5
regulatory  2
reid  1
reimbursable  1
reimbursement  1
reimbursors  1
rejected  1
rejection  2
rekeying  1
relate  1
related  11
relates  107
relating  10
relation  2
relational  1
relationship  8
relationships  2
relative  2
relay  3
release  12
released  2
relevant  10
reliable  2
reliably  2
relies  1
relieving  1
relinquishing  1
rely  1
remain  4
remaining  1
remains  2
remembering  1
remittance  1
remote  35
remotely  4
removable  1
remove  1
removing  1
renaud  1
render  1
renders  1
rensimer  1
repeat  1
repeaters  1
replace  1
replaced  1
replacement  1
replacing  1
replicated  1
report  4
reported  3
reporting  6
reports  1
repositories  1
repository  4
representation  5
representations  1
representative  4
represented  3
```

representing 3
represents 2
reproducing 1
reputation 1
request 19
requested 7
requester 10
requesting 4
requestor 1
requests 20
require 14
required 18
requirement 2
requirements 8
requires 9
requiring 6
research 7
researcher 1
researchers 2
resellers 1
resetting 3
resides 1
residual 1
resilience 1
resilient 1
resistant 5
resolution 3
resolved 1
resource 10
resources 20
respect 7
respective 10
respects 2
respiratory 1
responds 2
response 22
responsibility 1
responsible 1
responsive 5
responsiveness 1
restrict 1
restricted 7
restricting 3
restriction 2
restrictions 13
restrictive 2
restricts 1
restructuring 1
result 12
resultant 1
resulted 1
resulting 1
results 12
retail 3
retailers 3
retain 1
retained 1
retaining 1
retina 1
retinal 1
retrievable 1
retrieval 21
retrieve 4

retrieved 7
retrieves 1
retrieving 2
retrospective 1
returns 2
reveal 1
revenue 3
revenues 1
reverse 3
review 5
reviews 1
revisions 1
revocation 4
rewards 1
rewritable 2
rfc 1
rich 1
right 5
rights 38
rigorously 2
rind 1
rippen 1
risk 11
risks 5
rivest 1
robillard 1
robust 2
robustness 1
role 35
roles 7
roll 1
rolling 3
rom 2
routers 1
routine 1
routing 1
rowney 2
rows 2
royalty 3
rozen 2
rsa 2
rtm 1
rule 12
rules 92
running 5
safes 1
safety 2
safran 1
sale 2
same 22
sanctions 1
sandford 1
satellite 1
satisfaction 1
satisfy 1
sato 1
save 1
saved 2
scalability 1
scalable 2
scale 3
scan 1
scanlan 1

```
scanned  5
scanner  2
scanning  2
scans  1
schanz  2
scheduled  1
scheduling  3
scheme  18
schemes  13
schneck  2
schneiderman  1
schneier  1
scholnick  1
schools  1
scientific  1
scope  4
score  1
scoring  1
scramble  1
scrambled  3
scrambling  1
screen  5
screening  1
screens  2
scripts  1
scrubbing  1
sealed  6
search  8
searched  2
searches  1
searching  4
second  48
secondary  4
secondly  1
secret  11
secretary  1
secrets  2
section  9
secure  133
secured  50
securely  11
securing  14
securities  1
security  205
see  14
seed  3
seek  8
seeking  3
seeks  6
segments  1
segregate  1
select  2
selectable  1
selected  22
selecting  4
selection  5
selections  4
selective  2
selectively  6
selects  10
self  13
seliger  2
selker  1
```

sell    1
seller    1
semantic    2
semiconductor    1
sender    5
sending    1
sends    7
sense    2
sensing    1
sensitive    19
sensitivity    2
sensor    1
sent    3
sep    13
separable    1
separate    22
separately    10
seq    1
sequence    6
sequential    1
sequentially    1
serial    2
series    3
serious    2
serve    10
served    1
server    46
servers    7
serves    8
service    44
services    27
servicing    2
serving    1
session    10
sessions    2
set    56
sets    2
setting    1
several    5
sexual    2
sgml    1
shamir    1
shamos    1
shapes    1
share    1
shared    1
sharing    1
shield    4
shielded    6
shifted    1
shipping    1
short    1
shortcomings    2
showing    1
shrader    1
side    4
sides    2
signal    8
signalling    2
signals    8
signature    37
signatures    12
signed    3

```
significant  10
signing  5
signs  1
silhouette  1
similar  7
similarly  1
simple  5
simplifying  3
simply  2
simulation  1
simultaneously  4
single  12
site  6
sites  5
situated  2
situation  5
situations  4
situs  1
sixteen  3
size  5
sized  2
skilled  1
skin  1
sloane  2
slots  1
slowly  1
small  7
smaller  1
smart  22
smartcard  4
smartcards  1
smith  1
smorodinsky  1
smyers  1
sniffer  6
snmp  1
social  7
societal  2
socket  4
sockets  4
software  25
sole  1
solid  1
solution  1
sometimes  1
somewhere  1
songs  7
sophisticated  1
sort  1
sorting  1
sought  1
sound  1
source  16
sources  12
southeast  1
space  8
spaces  1
sparse  1
spatial  1
speaker  3
special  12
specialist  1
specialized  4
```

```
specialties  1
specific  24
specifically  4
specification  1
specified  12
specifies  4
specify  1
specifying  2
spectrum  2
speed  1
spending  2
split  1
splitting  1
sponsors  2
spoofing  2
spread  2
spurgeon  1
squarely  1
ssl  3
ssn  2
ssns  1
stack  4
stage  2
stamped  1
stamps  4
stand  3
standard  4
standardized  7
standardizing  1
starting  1
state  9
stated  4
statement  1
static  1
station  4
stations  5
statistical  2
status  8
statute  1
stay  3
stega  1
steganographic  5
steganographically  1
steganography  3
step  4
steps  10
still  3
stochastic  1
stolen  1
stone  1
storage  58
store  13
stored  71
stores  13
storing  20
strategic  1
stream  8
streams  4
strengthened  1
strengthening  1
strict  2
strictly  1
string  1
```

```
stripped  1
strong  1
structure  8
structured  3
structures  2
student  1
studies  3
study  5
subcombination  1
subcombined  1
subject  9
subjected  2
subjects  2
submission  1
submit  2
submitted  2
subscriber  6
subscribers  1
subscription  2
subsequent  5
subsequently  3
subset  4
subsets  1
subsidies  1
subsidy  2
substantial  4
substantially  4
substitute  1
subsystem  1
successful  4
successfully  1
successors  1
sudia  1
suffer  1
sufficiently  2
sui  1
suited  1
sullivan  1
sum  1
summaries  5
summary  16
supermarkets  1
supervision  1
supplement  4
supplemental  1
supplemented  1
supplementing  2
supplied  5
supplier  1
supplies  2
supply  2
support  11
supported  3
supporting  6
supports  4
supposedly  2
surgery  1
surrogate  1
surveillance  2
surveying  2
suspect  2
sustaining  1
suzuki  1
```

suzy  1
swanson  1
switch  3
switches  1
switching  1
symbol  1
symmetrical  1
symptoms  1
synchronization  2
synchronized  3
synchronous  1
synopsis  2
synthesis  2
synthesized  1
system  658
systems  74
szolovits  1
table  14
tables  7
tag  1
tagged  1
tagging  1
takahashi  1
take  4
taken  2
takes  1
tallying  1
tamper  4
tampering  2
tang  1
tape  1
task  3
tasks  4
tatebayashi  2
tcp  1
teachings  2
technically  1
technique  6
techniques  15
technologies  7
technology  7
telecheck  1
telecommunication  4
telecommunications  6
telephone  8
telephonic  1
telephonically  1
telephony  1
television  2
televisions  1
teller  2
template  1
templates  1
templeton  1
temporary  2
ten  1
tendencies  1
tends  1
terminal  21
terminals  8
terminated  1
terminology  2
terms  2

```
test  16
tested  1
testing  2
tests  2
text  16
textual  1
them  6
theme  1
themes  2
themselves  2
theory  2
therapist  3
therapists  1
therebetween  2
therefor  7
therefrom  1
therein  5
thereon  1
therewith  2
thing  1
third  25
thirdly  1
thorsen  1
though  3
three  3
through  55
throughout  2
thwarting  1
ticket  5
tied  1
ties  1
time  51
times  1
timestamping  1
timing  2
timson  1
today  1
together  6
token  20
tokenless  7
tokens  1
told  1
tolerant  1
tone  1
tool  3
top  4
topic  1
topical  1
topographical  2
total  2
touch  1
toward  2
traceable  1
traced  1
tracing  3
track  5
tracked  1
tracking  8
traditional  1
traditionally  1
traffic  3
trail  5
trailers  1
```

trails  5
transacted  1
transaction  66
transactional  12
transactions  42
transactor  1
transceiver  2
transfer  24
transferable  1
transferred  7
transferring  4
transfers  1
transform  2
transformation  1
transitional  1
translated  2
translates  2
translating  1
translation  3
transmissible  1
transmission  54
transmissions  1
transmit  2
transmits  3
transmitted  31
transmitter  1
transmitting  5
transparency  9
transparent  5
transponder  1
transport  6
transportable  1
travel  1
treated  4
treating  5
treatment  13
trend  2
trends  1
trial  3
trigger  1
triggers  2
triple  3
triples  1
trivial  1
troublesome  1
true  1
trust  32
trusted  37
trustee  47
trusts  16
trying  1
tuned  2
tunnel  1
tunneled  2
tunneling  8
turn  9
two  21
type  18
types  19
typical  1
typically  33
ubiquity  2
udp  1

ultimate  1
ultimately  1
ultrasonic  4
unable  1
unalterable  1
unauthenticated  1
unauthorized  25
unavailable  2
unchanging  1
uncontrolled  1
under  6
underlying  3
understanding  1
undertaking  1
undesirable  1
undiscovered  1
undoubtedly  2
undue  1
unemployment  1
unencrypted  2
unforgettable  1
unfortunately  2
unified  1
uniform  2
uniformity  1
unique  35
uniquely  2
unit  35
units  7
universal  1
universally  3
unless  3
unlimited  1
unlock  1
unpredictable  2
unreliable  1
unsecured  1
unsophisticated  1
unstructured  2
until  2
untraceable  1
untrusted  4
unusually  1
unwrapped  1
unwrapping  2
updatable  1
update  10
updated  7
updates  4
updating  5
upgrading  1
upkeep  1
upon  13
urgency  3
urls  1
usable  1
usage  19
useable  2
used  46
useful  2
user  209
users  37
uses  13

```
using  120
usual  1
usually  5
utility  1
utilization  2
utilize  1
utilized  7
utilizing  19
utmost  1
vaeth  1
valid  1
validate  1
validated  3
validates  1
validating  7
validation  2
valuable  4
value  25
values  15
variable  3
variables  2
variant  2
variants  1
variation  1
variations  5
variety  4
vary  2
varying  1
vascular  1
vastly  1
vat  1
vde  1
vectors  1
vehicle  1
vendor  2
vendors  1
verifiable  14
verifiably  1
verification  42
verified  11
verifier  3
verifies  6
verify  6
verifying  15
versatile  2
versatility  1
version  6
versions  1
very  7
via  21
video  11
videotex  1
view  2
viewed  1
viewing  4
views  1
violations  1
violent  1
virtual  48
virtually  2
visa  1
visit  3
visual  3
```

visually 2
vocabularies 1
voice 4
volume 2
voluminous 1
voluntarily 1
voter 1
voting 2
voucher 4
vouchers 6
vpn 2
vulnerable 1
waiting 2
waive 1
wallet 4
watermark 4
watermarking 10
watermarks 6
way 12
ways 1
weak 1
weakest 1
web 14
weighted 1
weiser 1
welfare 1
well 24
wesinger 1
whenever 1
whether 10
whose 3
wical 1
wide 13
widely 1
wiederhold 1
wilhelm 1
williams 4
willing 1
window 1
wireless 11
wish 3
wishes 2
wishing 1
withdrawn 1
within 39
without 31
witnessed 1
wong 1
words 3
work 2
workflow 2
works 4
workstation 4
workstations 2
world 3
worlds 1
worldwide 1
worn 2
worth 2
wrapped 3
wrapper 2
wright 1
write 3

```
writing  6
written  3
www  4
wyatt  1
xml  1
years  2
yield  1
yields  1
zero  2
zone  11
zones  2
```